

Worksheet (4) |

Lower Secondary
Stage (6-8)

1st Semester | 2023-2024

Subject: Math

Name: _____

Objectives:

- To simplify fractions, change an improper fraction into a mixed number and the opposite.

Chapter: 6 (Fractions)

Grade: 6 CS

Simplifying fractions.

Exercise (1): Simplify the following fractions.

Remember, you can find the HCF of the numerator and the denominator to make simplifying simpler and easier.

a) $\frac{21}{54}$

b) $\frac{20}{35}$

c) $\frac{28}{49}$

d) $\frac{16}{72}$

e) $\frac{36}{81}$

f) $\frac{44}{77}$

g) $\frac{3}{30}$

h) $\frac{44}{48}$

i) $\frac{10}{45}$

To change from mixed numbers to improper fractions:

- **Multiply** the denominator by the **whole number**.
- **Add up** the results to the **numerator**.
- Write the **final answer** in the **numerator** and **keep** the **denominator** as it is.

Exercise (2): Change into a fraction.

a) $2 \frac{10}{12}$

b) $7 \frac{5}{10}$

c) $3 \frac{9}{11}$

d) $9 \frac{7}{20}$

e) $21 \frac{3}{7}$

f) $30 \frac{5}{6}$

To change from improper fractions to mixed numbers:

- First, **divide** the numerator by the denominator (**long division**).
- Now:
 - The **quotient** is the **whole number**.
 - The **remainder** is the **numerator**.
 - The **divisor** is the **denominator**.

Exercise (3): change into a mixed number.

a) $\frac{35}{4}$

b) $\frac{65}{12}$

c) $\frac{44}{20}$

d) $\frac{64}{10}$

e) $\frac{29}{5}$

f) $\frac{39}{9}$